CIVIL PRO

AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M10)	Compressive Strength(7days and 28days)	5 set /1-100 cum	153.47	10	10
9	PCC(M20)	Compressive Strength(7days and 28days)	8 set /31-400 cum	358.08	16	16

ನಕಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಚಾಮರಾಜಪೇಟೆ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ
ಎಸ್.ಬಿ. ರಸ್ತೆ, ರಾಜೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 24-09-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-09-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 24-09-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-09-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 20-10-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-09-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

SL No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

CIVIL Pro BANGALORE Sig. Date

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Date: 25-09-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-05-23-85 **Date: 25-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

Note:
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****End of Report****

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Date: 24-09-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ ಮಾಗರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ...ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Lab ID	:	**CP-2020-05-23-85** **Date: 25-09-19**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
Pan	Pan	405	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-23-85** **Date: 25-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-23-85** **Date: 24-09-19**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	-

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-23-85** **Date: 24-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2020-05-23-85** **Date: 24-09-19**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-09-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 13-10-19

Lab ID	:	**CP-2020-05-23-85**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-19
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	08/10/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	2.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	2.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	2.118	4476	81.5	18.2	16.9	21.2

Note:

The results pertain to the samples received and tested.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-05-23-85** **Date: 13-10-19**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/10/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	2.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	2.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	2.118	4476	81.5	18.2	16.9	21.2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-05-23-85** **Date: 23-09-19**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-09-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	22-09-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-05-23-85 **Date: 09/10/2019**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22418	8.08	189	8.45	
2	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22528	8.48	171	7.57	8.3
3	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22357	8.41	198	8.85	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-85** **Date: 30/10/2019**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22582	8.50	301	13	13.4
2	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22829	8.15	302	13	
3	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22904	8.45	314	14	

Note:

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ಬೃಹತ್ ಬೆಂಗಳೂರು. ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-85** **Date: 09/10/2019**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22351	8.22	190	8.50	8.3
2	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22406	7.88	166	7.42	
3	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22538	7.89	203	8.99	

Note:

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-05-23-85** **Date: 30/10/2019**
Customer	:	Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.
Address	:	Shetty Halli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency	:	M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010
Customer's Reference	:	EE/DD/W.O/400/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-19
Customer ID	:	M10(PCC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22307	8.26	295	13	13.5
2	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22849	8.41	305	13	
3	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22512	8.32	314	14	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-85**

Date: 09/10/2019

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22376	7.81	184	8.21	8.0
2	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22542	8.07	174	7.73	
3	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22109	7.85	180	8.12	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ ಸಿಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-85** **Date: 30/10/2019**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

Address : Shetty Halli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Surya Enclave roads and other roads in ward no 12 Shettyhalli Sub Division

Agency : M/S Technical Manager (west)The General Manager, Karnataka Rural Infrastructure Development Limited No.280,59th Cross 17th C Main road 3rd Y Block Rajaji nagara Bangalore-560010

Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22766	8.25	300	13	13.3
2	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22536	7.97	302	13	
3	M10(PCC)	M10	02/10/2019	30/10/2019	150.22 X 150.54 X 150.55	22680	8.20	305	13	

Note:
The results pertain to the samples received and tested.
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CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜರಾಜೇಶ್ವರಿನಗರ, ಬೆಂಗಳೂರು.

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-85** **Date: 09/10/2019**

Customer : Assistant Executive Engineer,Shetty Halli Sub Division, BBMP, Bangalore.

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Customer's Reference : EE/DD/W.O/400/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : M10(PCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22434	8.33	185	8.25	8.1
2	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22904	8.23	175	7.62	
3	M10(PCC)	M10	02/10/2019	09/10/2019	150.22 X 150.54 X 150.55	22515	7.97	187	8.32	

Note:

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R KARTHIK RECHAN
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CIVIL Pro Sig..... Date.....

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

****End of Report****